

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/083094 A1

(51) International Patent Classification⁷: C12N 7/00, 15/00

(21) International Application Number: PCT/EP02/03559

(22) International Filing Date: 29 March 2002 (29.03.2002)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): INNO-GENETICS N.V. [BE/BE]; Industriepark Zwijnaarde 7, Box 4, B-9052 Ghent (BE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): BOZDAYI, Abdurrahman, Mithat [TR/TR]; Zarif Sok. 7 - 22, Dikmen, 06440 Ankara (TR).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HBV DRUG RESISTANCE DRUG RESISTANCE DETECTION METHODS

(57) Abstract: New polymorphisms in the nucleic acid sequences of the DNA polymerase/reverse transcriptase open reading frame and viral surface antigen open reading frame of the hepatitis B virus are reported. In particular, the present invention relates to the mutation YMDD → YSDD in the HBV reverse transcriptase domain and to the W196V mutation in the small HBV viral surface antigen. Said polymorphisms are affecting the detection of drug resistance mutations by genotypic methods and diagnostic kits based thereon. The present invention relates to methods and diagnostic kits for detection of a HBV virus comprising said nucleic acid polymorphisms. In particular, those methods utilizing oligonucleotides capable of hybridizing to said HBV nucleic acid polymorphisms are envisaged.

WO 03/083094 A1